## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A thermal exchange device comprising:

a planar thermal electric cooling unit having an upper planar side and a lower planar side, comprising a first planar plate positioned on the upper planar side and a second planar plate positioned on the lower planar side of the unit:

a housing comprising a first housing wall and a second housing wall, wherein the first housing wall is positioned on the upper-side first planar plate of the thermal electric cooling unit and the second housing wall is positioned on the lewer-side second planar plate of the thermal electric cooling unit:

a first heat pipe positioned within the first planar plate, wherein a predetermined portion of the first heat pipe extends laterally beyond the first planar plate in a first direction to an exterior of the housing;

a second heat pipe positioned within the second planar plate, wherein a predetermined portion of the second heat pipe extends laterally beyond the second planar plate in a direction opposite to the first direction to an interior of the housing;

a plurality of fins formed on the predetermined portion of each of the heat pipes;

an external fan provided over the fins on the first heat pipe that draws air outside the housing into the housing; and

an internal fan provided under the fins on the second heat pipe that circulates air within the housing.

- (Previously Presented) The thermal exchange device of Claim 1, wherein of the first heat pipe is positioned in a center of the first planar plate, and the second heat pipe is positioned in a center of the second planar plate.
- 3. (Currently Amended) A thermal exchange device comprising: a thermal electric cooling unit comprising a first planar plate and a second planar plate, wherein the first planar plate is in a first plane, and the second planar plate is in a second plane which is below the first plane;
  - a first housing wall positioned above the first <u>planar plate</u> <del>plane</del>;
    a second housing wall positioned below the second <u>planar plate</u> <del>plane</del>;
- a first heat pipe positioned within the first planar plate and extending laterally in a first direction-to-an-exterior of the housing;

a second heat pipe positioned within the second plate and extending laterally in a second direction opposite the first direction to an interior of the housing;

- a first plurality of fins formed on the first heat pipe, the first plurality of fins extending radially from the first heat pipe; and
- a second plurality of fins formed on the second heat pipe, the second plurality of fins extending radially from the second heat pipe.
- (Previously Presented) The thermal exchange device of Claim 3, further comprising an external fan formed on an upper side of the first plurality of fins.
- (Previously Presented) The thermal exchange device of Claim 4, wherein the external fan processes an outside air.

- (Previously Presented) The thermal exchange device of Claim 5, further comprising an internal fan formed on a lower side of the second plurality of fins.
- (Previously Presented) The thermal exchange device of Claim 6, wherein the internal fan processes the air within the first housing wall and the second housing wall.
- (Previously Presented) The thermal exchange device of Claim 3, wherein the first plurality of fins is a high-density fin stack.
- (Previously Presented) The thermal exchange device of Claim 3, wherein the second plurality of fins is a high-density fin stack.